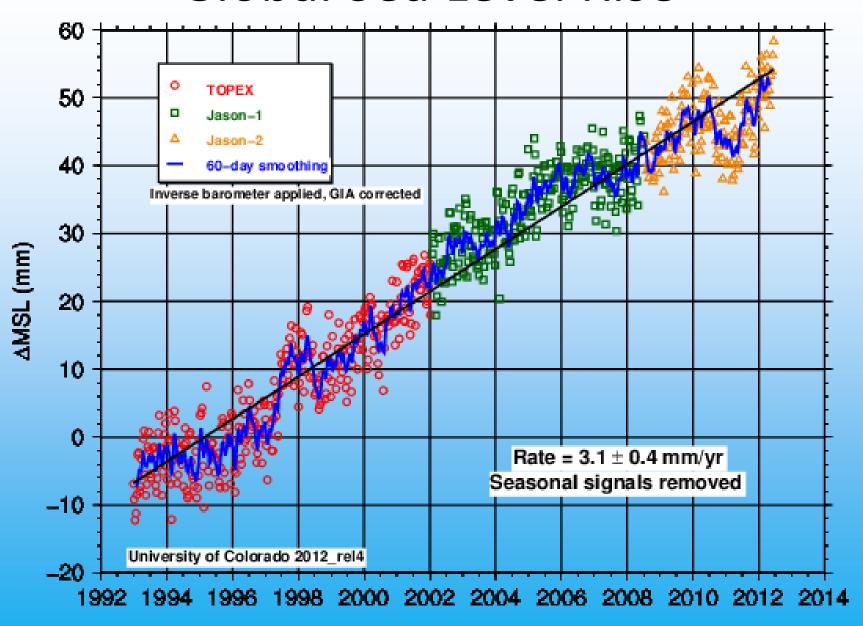
Global Sea Level Rise



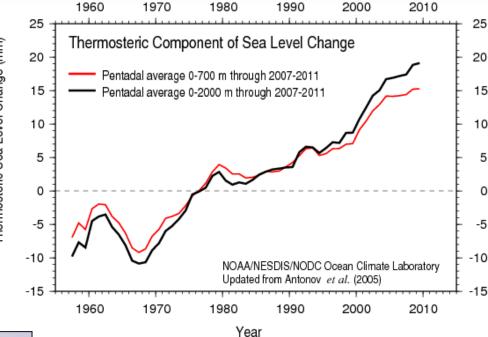
Physical Basis of Sea Level Rise

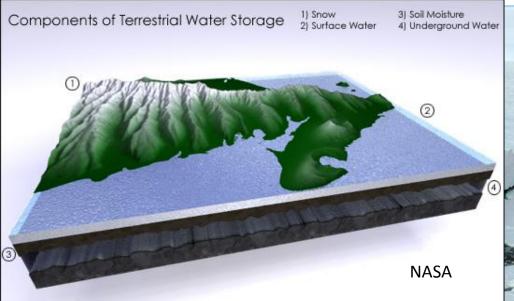
- Global SLR components
- Global SLR components

 Steric (thermal expansion)

 Ice melt

 Terrestrial water storage

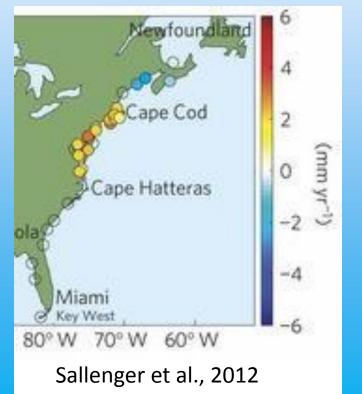


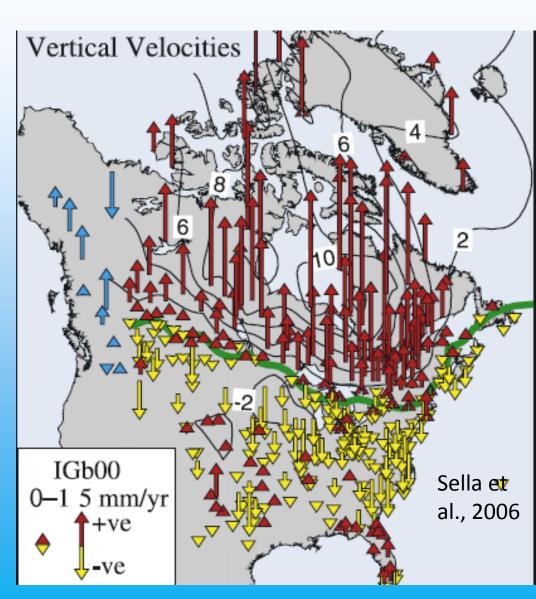




Physical Basis of Sea Level Rise

- Regional (relative) SLR components
 - Glacial isostatic adjustment
 - Water surface elevation





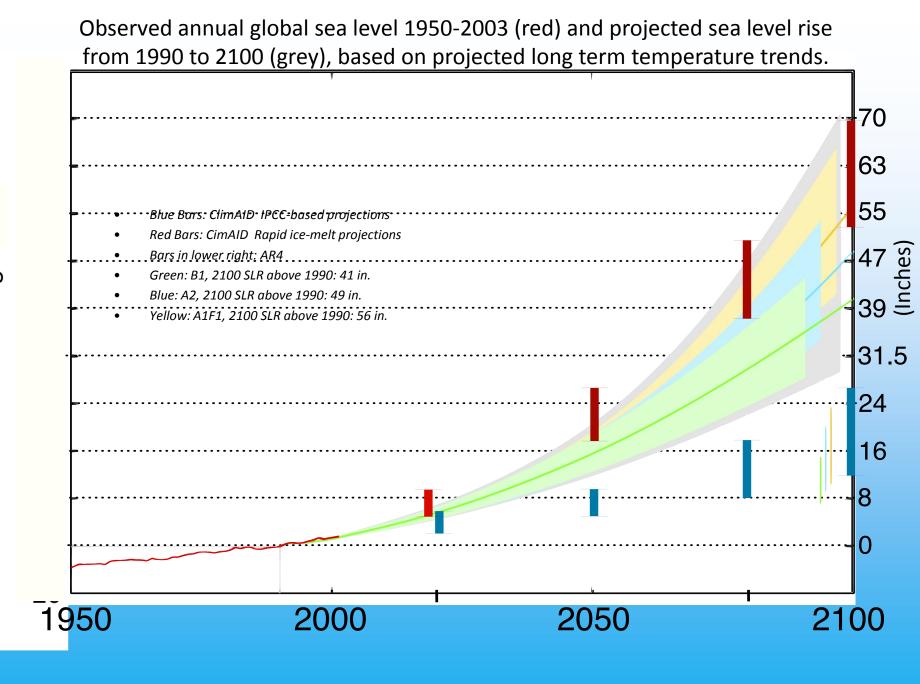


Sea Level Rise Projections ClimAID

Mid-Hudson	Baseline	2020s	2050s	2080s	2100
Valley & Capital	(1971 –				
Region	2000)				
Sea Level Rise ¹	NA	1 to 4	5 to 9	8 to 18	11 to 26
(inches)					
Seal Level Rise ²	NA	4 to 9	17 to 26	37 to 50	52 to 68
Rapid Ice Melt					
(inches)					

¹ Shown is the central range (middle 67%) of values from model-based probabilities rounded to the nearest inch.

² The rapid ice melt scenario is based on acceleration of recent rates of ice melt in the Greenland and West Antarctic Ice sheets and paleoclimate studies.

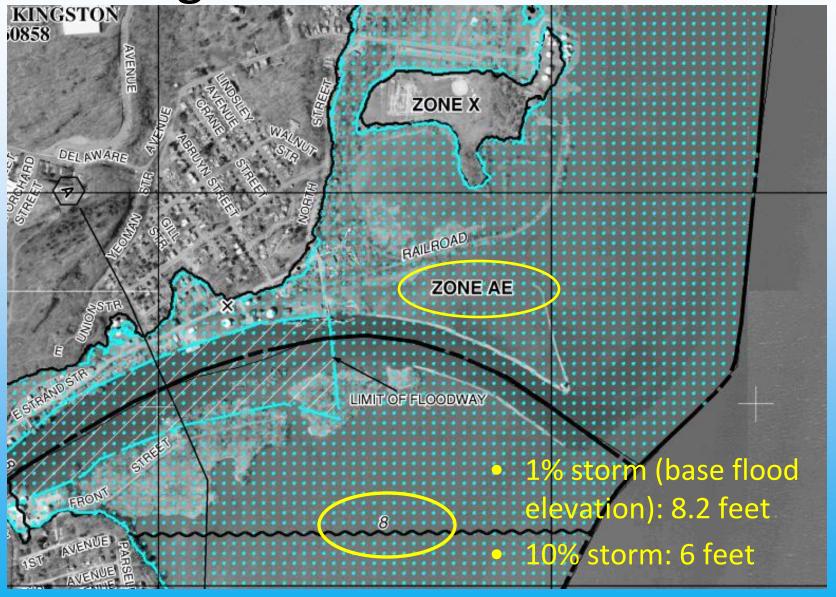


Proposal

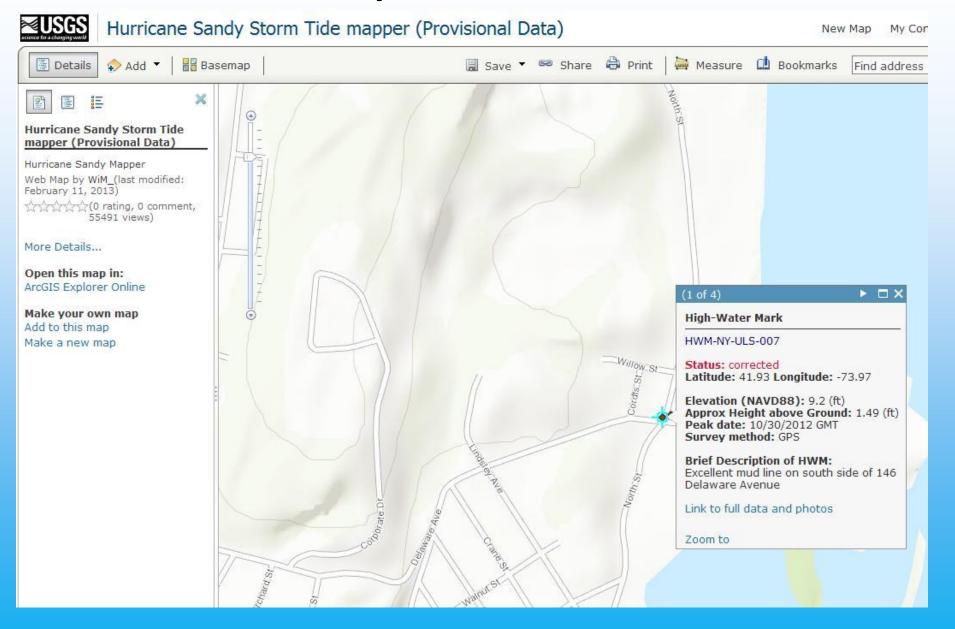
Planning horizon: 2050-2100

Year Sea Level Rise Scenario	2050	2100
Low	17 inches	36 inches
High	26 inches	68 inches

Kingston Flood Elevations



Sandy's Storm Tide



Proposal

Planning horizon: 2050-2100

COAST: 2 SLR scenarios, 2 flood frequencies

DOS CRRP: 1 SLR scenario, 2 flood frequencies

	DOS	
17-36", 1%	17-36", 10%	36", 1%
26-68", 1%	26-68, 10%"	36", 10%